

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	777134	(rough\$6 or surfac\$6 or type or kind or ohp or transparen\$6) near10 (sens\$6 or detect\$6 or monitor\$6 or determin\$6 or decis\$6 or deciper\$6 or decid\$9)	US-PGPUB; USPAT	OR	ON	2005/08/08 13:19
L4	1453095	(rough\$6 or surfac\$6 or type or kind or ohp or transparen\$6) near10 (paper or sheet or media or medium or material or copy or copies or substrate)	US-PGPUB; USPAT	OR	ON	2005/08/08 13:19
L5	7781	(pretransfer\$6 or pretreat\$6) near10 (accord\$6 or correspond\$6 or base\$2 or basing or result\$6 or inaccord\$6)	US-PGPUB; USPAT	OR	ON	2005/08/08 13:20
L6	98576	(before or prior) near10 (transfer\$9)	US-PGPUB; USPAT	OR	ON	2005/08/08 13:20
L7	450801	(before or prior) near10 (accord\$6 or correspond\$6 or base\$2 or basing or result\$6 or inaccord\$6)	US-PGPUB; USPAT	OR	ON	2005/08/08 13:20
L8	32	3 same 4 same (5 or (6 same 7))	US-PGPUB; USPAT	OR	ON	2005/08/08 13:25
L9	384146	(rough\$6 or surfac\$6 or type or kind or ohp or transparen\$6) near10 (sens\$6 or detect\$6 or monitor\$6 or determin\$6 or decis\$6 or deciper\$6 or decid\$9)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 13:21
L10	1441698	(rough\$6 or surfac\$6 or type or kind or ohp or transparen\$6) near10 (paper or sheet or media or medium or material or copy or copies or substrate)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 13:19
L11	2171	(pretransfer\$6 or pretreat\$6) near10 (accord\$6 or correspond\$6 or base\$2 or basing or result\$6 or inaccord\$6)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 13:20
L12	17926	(before or prior) near10 (transfer\$9)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 13:20
L13	46022	(before or prior) near10 (accord\$6 or correspond\$6 or base\$2 or basing or result\$6 or inaccord\$6)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 13:20
L14	26	9 and 10 and (11 or (12 and 13))	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 13:22
L15	2514626	imag\$6 or printer or electrophotograph\$6 or electrostat\$9 or copier or print	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 13:21

L16	620810	(rough\$6 or surfac\$6 or type or kind or ohp or transparen\$6) near10 (sens\$6 or detect\$6 or monitor\$6 or determin\$6 or decis\$6 or deciper\$6 or decid\$9 or select\$6 or enter\$6 or input\$6)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 13:24
L17	48	16 and 10 and (11 or (12 and 13))	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 13:22
L18	14	15 and 17	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 13:22
L19	758170	(rough\$6 or surfac\$6 or type or kind or ohp or transparen\$6) near10 (select\$6 or enter\$6 or input\$6)	US-PGPUB; USPAT	OR	ON	2005/08/08 13:24
L20	37	19 same 4 same (5 or (6 same 7))	US-PGPUB; USPAT	OR	ON	2005/08/08 13:25
L21	37	20 not 8	US-PGPUB; USPAT	OR	ON	2005/08/08 13:25

**PAT-NO:** JP411024443A

**DOCUMENT-IDENTIFIER:** JP 11024443 A

**TITLE:** IMAGE FORMING DEVICE

**PUBN-DATE:** January 29, 1999

**INVENTOR-INFORMATION:**

**NAME**

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TAKAHASHI, MITSURU

NAMEKATA, SHINICHI

ONO, HIROSHI

**ASSIGNEE-INFORMATION:**

**NAME**

RICOH CO LTD

**COUNTRY**

N/A

**APPL-NO:** JP09179635

**APPL-DATE:** July 4, 1997

**INT-CL (IPC):** G03G015/16, G03G015/01

**ABSTRACT:**

**PROBLEM TO BE SOLVED:** To form an excellent image not only on general paper or an OHP sheet but also on more wide-ranging final image carriers by electrostatically transferring a visible image formed on the image carrier on a transfer material by selectively actuating electrostatic attracting force or electrostatic repulsive force according to a transfer condition.

**SOLUTION:** When a color visible image is formed on an intermediate transfer belt 16, a transfer material S is carried toward a second transfer part. Then, the smoothness of the surface of the material S is detected by a smoothness detection means 40. By a control means 25, a developing bias voltage whose the polarity is reverse to an electrostatic charge polarity of the visible image is impressed on a roller 28 from a power source 29 and secondary transfer by electrostatic attracting force is executed by the control of a constant current when the smoothness of the surface of the material S is excellent. Moreover, when the smoothness of the surface of the material S is bad and rugged, a developing bias voltage whose the polarity is identical to the electrostatic charge polarity of the visible image is impressed on a roller 164 from a power source 165 by the control means 25 and secondary transfer by electrostatic repulsive force is executed by the control of the constant current or the control of a constant voltage.